**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements CC Roads and CC Drains Works at Kattigenahalli in Ward No.5**
**Byatarayanapura Sub Division**

**PRE MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage in m | | Description of Item | Unit | No | Length | Breadth | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| From | To | | | | (m) | (m) | (m) | | |
| Item no.19 | | Providing and laying reinforced cement concrete pipe NP2 for prestressed concrete pipe for culverts including on first class bedding of granular material in single row including fixing collars with cement mortar 1:2 but excluding excavation protection works back filling and measonary works in head wall and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work . | | | | | | | |
| Measurements Taken on | | | | | | | | | |
| | | For Drain side filling | Mtrs | 8 | 2.5 | | | 20 | |
| | | | | | | | TOTAL | 20 | |

Checked.

10/12/19

K.E. (Project)/2

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Assistant Executive Engineer

## MEASUREMENT SHEET
## FIRST AND FINAL BILL

| Chainage in m From | Chainage in m To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. |
|---|---|---|---|---|---|---|---|---|---|---|
| 12.1 | 15.9 | | Cum | 1 | 3.8 | 3.3 | 0.15 | 1.88 | | |
| 15.9 | 17.9 | | Cum | 1 | 2 | 1.1 | 0.15 | 0.33 | | |
| 17.9 | 23.3 | | Cum | 1 | 5.4 | 1.7 | 0.15 | 1.38 | | |
| 23.3 | 31.6 | | Cum | 1 | 8.3 | 3.05 | 0.15 | 3.80 | | |
| 31.6 | 40 | | Cum | 1 | 8.4 | 3.05 | 0.15 | 3.84 | | |
| 40 | 53.3 | | Cum | 1 | 13.3 | 2.7 | 0.15 | 5.39 | | |
| | | Cross Road | | | | | | | | |
| 0 | 7.1 | | Cum | 1 | 7.1 | 3.4 | 0.15 | 3.62 | | |
| 7.1 | 11.8 | | Cum | 1 | 4.7 | 3 | 0.15 | 2.12 | | |
| 11.8 | 14.5 | | Cum | 1 | 2.7 | 2.1 | 0.15 | 0.85 | | |
| 14.5 | 31.7 | | Cum | 1 | 17.2 | 1.75 | 0.15 | 4.52 | | |
| | | | | | | | TOTAL | 33.15 | 5210.96 | 172743.32 |

Checked
E.E. (Projects)

| | |
|---|---|
| Item no 16 | Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift complete as per specifications and directions of Engineer in charge of work. |
| Measurements Taken on | 07-12-2019 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cross Road | | | | | | | | |
| 0 | 9 | | Sqm | 1 | 9 | 3.25 | | 29.25 | | |
| 9 | 12.1 | | Sqm | 1 | 3.1 | 2.25 | | 6.98 | | |
| 12.1 | 15.9 | | Sqm | 1 | 3.8 | 3.3 | | 12.54 | | |
| 15.9 | 17.9 | | Sqm | 1 | 2 | 1.1 | | 2.20 | | |
| 17.9 | 23.3 | | Sqm | 1 | 5.4 | 1.7 | | 9.18 | | |
| 23.3 | 31.6 | | Sqm | 1 | 8.3 | 3.05 | | 25.32 | | |
| 31.6 | 40 | | Sqm | 1 | 8.4 | 3.05 | | 25.62 | | |
| 40 | 53.3 | | Sqm | 1 | 13.3 | 2.7 | | 35.91 | | |
| | | Cross Road | | | | | | | | |
| 0 | 7.1 | | Sqm | 1 | 7.1 | 3.4 | | 24.14 | | |
| 7.1 | 11.8 | | Sqm | 1 | 4.7 | 3 | | 14.10 | | |
| 11.8 | 14.5 | | Sqm | 1 | 2.7 | 2.1 | | 5.67 | | |
| 14.5 | 31.7 | | Sqm | 1 | 17.2 | 1.75 | | 30.10 | | |
| | | | | | | | TOTAL | 221.00 | 72.08 | 15929.68 |

| | |
|---|---|
| Item no 17 | precast slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per the directions of the Engineer-in-charge of the work. |
| Measurements Taken on | 04-02-2020 To 07-02-2020 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | PRE CAST SLAB | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15 | 1.20 | | 18.00 | | |
| 15 | 30 | | Sqm | 1 | 15 | 1.20 | | 18.00 | | |
| 30 | 45 | | Sqm | 1 | 15 | 1.20 | | 18.00 | | |
| 45 | 56.5 | | Sqm | 1 | 11.5 | 1.20 | | 13.80 | | |
| 56.5 | 77.5 | | Sqm | 1 | 21 | 1.20 | | 25.20 | | |
| 77.5 | 90.5 | | Sqm | 1 | 13 | 1.20 | | 15.60 | | |
| 90.5 | 114.7 | | Sqm | 1 | 24.2 | 0.90 | | 21.78 | | |
| 114.7 | 139.9 | | Sqm | 1 | 25.2 | 0.90 | | 22.68 | | |
| 139.9 | 164.2 | | Sqm | 1 | 24.3 | 0.90 | | 21.87 | | |
| 164.2 | 190 | | Sqm | 1 | 25.8 | 0.90 | | 23.22 | | |
| 190 | 201.3 | | Sqm | 1 | 11.3 | 0.90 | | 10.17 | | |
| 201.3 | 231.3 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 231.3 | 261.3 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 261.3 | 291.3 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 291.3 | 304 | | Sqm | 1 | 12.7 | 0.90 | | 11.43 | | |
| | | | Sqm | | | | | | | |
| | | RHS | Sqm | | | | | | | |
| 0 | 30 | Ashwathappa house to main road | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 30 | 60 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 60 | 90 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 90 | 120 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 120 | 150 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 150 | 180 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 180 | 210 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 210 | 240 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |

E.E. (Projects)

RUDRAPRASAD CONSULTANTS ★ BANGALORE PMC

Contactor

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Assistant Executive Engineer 15/2/2020

## MEASUREMENT SHEET
## FIRST AND FINAL BILL

| Chainage in m From | Chainage in m To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. |
|---|---|---|---|---|---|---|---|---|---|---|
| 240 | 270 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 270 | 300 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 300 | 330 | | Sqm | 1 | 30 | 0.90 | | 27.00 | | |
| 330 | 351.4 | | Sqm | 1 | 21.4 | 0.90 | | 19.26 | | |
| | | kattigenahalli lake road | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15 | 1.5 | | 22.50 | | |
| 15 | 30 | | Sqm | 1 | 15 | 1.5 | | 22.50 | | |
| 30 | 45 | | Sqm | 1 | 15 | 1.5 | | 22.50 | | |
| 45 | 46 | | Sqm | 1 | 1 | 1.5 | | 1.50 | | |
| 54 | 69 | | Sqm | 1 | 15 | 1.5 | | 22.50 | | |
| 69 | 84 | | Sqm | 1 | 15 | 1.5 | | 22.50 | | |
| 84 | 91 | | Sqm | 1 | 7 | 1.5 | | 10.50 | | |
| | | | | | | | TOTAL | 741.51 | 2337.00 | 1732908.87 |

checked. E.E. (Project) 18/2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Item no.18** | providing and installing at site of work 63mm (0.662) PVC pipes of 6kg /cm2 including cost of pipe and specials and labour,including lowering into trenches,laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges including encasing the pipe alround to the depth not less than 15cms with gravel or selected earth available from excavation etc., and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Mtrs | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 17 | | | | | | 179.00 | | |
| | | | | | | | **Total** | **179.00** | **394.32** | **70583.28** |
| **Item no.19** | Providing and laying reinforced cement concrete pipe NP2 for prestressed concrete pipe for culverts including on first class bedding of granular material in single row including fixing collars with cement mortar 1:2 but excluding excavation protection works back filling and measonary works in head wall and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Mtrs | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 18 | | | | | | 20.00 | | |
| | | | | | | | **Total** | **20.00** | **5976.28** | **119525.60** |
| **Item no.20** | Providing 100mm and down nominal size and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 19 | | | | | | 1.34 | | |
| | | | | | | | **Total** | **1.34** | **987.62** | **1327.36** |
| **Item no.21** | Providing 40mm and down nominal size and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 20 | | | | | | 0.896 | | |
| | | | | | | | **Total** | **0.896** | **1091.430** | **977.92** |
| **Item no.22** | Providing 20mm and down nominal size and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 21 | | | | | | 0.896 | | |
| | | | | | | | **Total** | **0.896** | **1091.430** | **977.92** |
| **Item no.23** | Providing fine aggregate 2.36 nominal size and as per the directions of the Engineer-in-charge of the work . | | | | | | | | | |
| | | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 22 | | | | | | 0.672 | | |
| | | | | | | | **Total** | **0.672** | **1054.290** | **708.48** |

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Contactor

Assistant Engineer

Asst Executive Engineer Project Division Bangalore

Assistant Executive Engineer